

## DAYLIGHT SAVINGS TIME (DST) EXTENSION 2/22/07

**NOTE: If you broadcast a time announcement message, you must run this procedure before March 11, 2007. Otherwise, you can disregard it.**

**NOTE:** Please read this procedure completely from start to finish to ensure you understand it before attempting the installation.

**NOTE:** The entire procedure should be completed in approximately 20 minutes.

If you have any questions about this procedure, please contact either Joel Nathan (301-713-0191x119) or Antoine Moran (301-713-0191x193).

### Overview

CRS uses UTC for all message processing. Only sites that broadcast the internally generated time announcement message need to use local time. Effective in 2007, DST begins the second Sunday in March and ends the first Sunday in November. There is no patch available to make these changes in the UnixWare Operating Systems being run on the CRS MPs and FEPs. Therefore, CRS Build 12.0 will modify the "TZ" environment variable to include the correct start and end date for DST. Because Build 12.0 will not be deployed until later in 2007, this procedure must be used to download and execute the scripts that make the appropriate changes. The execution of the scripts will modify the system environment variable TZ with the 2007 DST start and end. The following modified/new files will be installed in on 0mp, 5mp, 1FEP, 2FEP (if applicable), 3FEP(if applicable), and 4BKUP:

- */crs/bin/timeZone.sh*
- */etc/profile*

The following procedure shall be used to download and run the scripts.

### \*\*\*WARNING\*\*\*

This procedure must be run with OMP as the Master MP. If the OMP hard drive is replaced, the entire procedure must be run to download and re-run the scripts. If the CRS Build 11.0 Application software must be re-installed for any other reason (FEP or 5MP hard drive failure, corrupted software, etc.), the scripts must be re-run using the **/crs/DST/setup.sh** command.

**NOTE:** The CRS system must be **STOPPED** prior to executing this procedure. When the procedure is completed, you will be instructed to shutdown all MPs and FEPs, reboot them, and restart CRS.

1. Take CRS down: on the main menu bar, click on **System** then select **Stop System**. Click on the **OK** button when the popup window appears, then click on the **CLOSE** button.



2. Wait for the *Status* window to display all down indicators.
3. Log out of the CRS GUI by clicking on **System** and selecting **Exit to Unix**. A dialog box that asks *Wish to Exit CRS Control Interface* is displayed. Click **OK** to continue.
4. When the CRS login window appears, log in as **root** with the correct password.
5. The UnixWare desktop is displayed. Open a Unix shell by clicking on the Terminal Emulation icon.

**NOTE:** For each CRS computer and each account on AWIPS, if this is the first time that sftp has been used to connect to NOAA1, the following message will be displayed:

**The authenticity of host '165.92.25.137 (165.92.25.137)' can't be established.  
RSA key fingerprint is ce:04:99:40:82:99:dc:4f:22:e9:fc:d2:a3:fd:22:f1.  
Are you sure you want to continue connecting (yes/no)?**

By answering **yes** to the question, the sftp session will be allowed to continue. The following ominous looking message simply informs you that NOAA1's secure shell public key was added to the user account specific *known\_hosts* file on your CRS computer so that authenticity of NOAA1 will no longer be questioned.

**Warning: Permanently added '165.92.25.137' (RSA) to the list of known hosts.**

Finally, the password prompt for the ftpawips account on NOAA1 will be displayed:

[ftpawips@165.92.25.137's](#) password:

At the password prompt, enter the password for the ftpawips account.

6. At the command line prompt, enter the following commands (shown in **bold**) to sftp transfer the CRS DST Update tar file from the AWIPS NOAA1 ftp server. Enter the commands carefully and include spaces where required.

**NOTE:** The following is an **EXAMPLE** from a *NWSHQ Build 11.0* test system session.

*OMP{root}* **sftp -o user=ftpawips 165.92.25.137**

*...connecting to 165.92.25.137...* (Comment: If this is the 1<sup>st</sup> time connecting, you will get the messages described above in the Note Box.)

[ftpawips@165.92.25.137's](#) password:<consult the AWIPS Focal Point or NCF for passwd>

*sftp>* **cd crs/patches**

*sftp>* **lcd /crs** (Comment: Local directory now /crs)

*sftp>* **get DST.tar**

*Fetching /awips/ftp/crs/patches/DST1.tar to DST.tar* (Comment: This may take a minute or two to complete.)

*sftp>* **bye**

7. At the command line prompt, enter the following commands (shown in bold) to install the patch files.

```
OMP{root} cd /crs
OMP{root} tar -xvf DST.tar
UX:tar: INFO: blocksize = 16
x /crs/DST/, 0 bytes, 0 tape blocks
x /crs/DST/timeZone.sh, 770 bytes, 2 tape blocks
x /crs/DST/transfer.sh, 205 bytes, 1 tape block
x /crs/DST/setup.sh, 868 bytes, 2 tape blocks
x /crs/DST/remove.sh, 600 bytes, 2 tape blocks
OMP{root} /crs/DST/setup.sh
CRS 2007 DST Update
OMP is alive
OMP Updated
5MP is alive
5MP Updated
1FEP is alive
1FEP Updated
2FEP is alive      (if you have 2FEP)
2FEP Updated      (if you have 2FEP)
3FEP is alive      (if you have 3FEP)
3FEP Updated      (if you have 3FEP)
4BKUP is alive
4BKUP Updated
```

8. At the command line prompt, enter the following commands (shown in bold) to shutdown all MPs and FEPs

```
OMP{root} cd /
OMP{root} rsh 5MP /sbin/shutdown -y -i0 -g0
OMP{root} rsh 1FEP /sbin/shutdown -y -i0 -g0
OMP{root} rsh 4BKUP /sbin/shutdown -y -i0 -g0
```

Repeat for 2FEP and 3FEP if necessary.

```
OMP{root} /sbin/shutdown -y -i0 -g0
```

9. Restart both MPs and all FEPs and restart CRS.